**CLAIM AMENDMENTS** 

Claim Amendment Summary

Claims pending

Before this Amendment: Claims 1-17 and 20-52.

• After this Amendment: Claims 1-17 and 20-52.

Non-Elected, Canceled, or Withdrawn claims: 18, 19, and 53-57

Amended claims: 1, 9, 16, 29, 34-44, and 46

New claims: none

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Claims:

1. (Currently Amended) A system comprising:

a source database storing a plurality of highly compressed content pieces, wherein highly compressed content pieces are versions of portions of content that are created in a manner so that the highly compressed form cannot be decompressed into an intelligible

form yet can be compared to uncompressed content for equality; and

a content player, coupled to the source database, the content player including,

an interface to receive a subset of the plurality of highly compressed content pieces from the source database,

a storage device to store the subset, wherein the number of pieces included in the subset can vary based on the available memory in the storage device and the storage required for each piece.

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a comparator to compare the subset to content and determine whether the content matches any of the plurality of highly compressed content pieces in the subset.

a resolver to take particular action in response to the comparator indicating the content matches one of the plurality of highly compressed content pieces in the subset, the particular action comprising:

contacting a remote device to perform a more thorough analysis of whether the content matches any of the plurality of highly compressed content pieces, and

notifying a publisher of the media content of the existence of pirated content; and

an output controller to render the content if the comparator indicates the content does not match any of the highly compressed content pieces in the subset.

- 2. (Original) A system as recited in claim 1, wherein the comparator is to compare the subset to content being played by the content player.
- (Original) A system as recited in claim 1, wherein the content player is coupled to the source database via the Internet.
- **4.** (Original) A system as recited in claim 1, wherein the plurality of highly compressed content pieces comprises a plurality of highly compressed audio pieces.

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5. (Original) A system as recited in claim 1, wherein the plurality of highly compressed content pieces comprises a plurality of highly compressed video pieces.

6. (Previously Presented) A system as recited in claim 1, wherein the plurality of highly compressed content pieces comprises a plurality of highly compressed audio and video pieces.

7. (Original) A system as recited in claim I, wherein the interface is further to subsequently communicate with the source database, retrieve a new subset of the plurality of highly compressed content pieces from the source database, and replace the subset in the storage device with the new subset.

**8.** (Original) A system as recited in claim 1, further comprising a content source coupled to the content player, and wherein the content player further comprises a compressor to receive content from the content source, generate a highly compressed content piece based on the received content, and add the generated highly compressed content piece to the subset in the storage device.

9. (Currently Amended) A system comprising:

a source database storing a plurality of highly compressed content pieces, wherein highly compressed content pieces are versions of portions of content that are created in a manner so that the highly compressed form cannot be decompressed into an intelligible form yet can be compared to uncompressed content for equality; and

a content player, coupled to the source database, the content player including,

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an interface to receive a subset of the plurality of highly compressed

content pieces from the source database,

a storage device to store the subset, wherein the number of pieces included

in the subset can vary based on the available memory in the storage device and the

storage required for each piece.

a comparator to compare the subset to content and determine whether the

content matches any of the plurality of highly compressed content pieces in the

subset, and

a resolver to take particular action in response to the comparator indicating

the content matches one of the plurality of highly compressed content pieces in the

subset,

wherein the storage device is further to store a plurality of licenses

identifying content that a user of the content player is authorized to playback, and

wherein the particular action comprises the resolver checking whether one of the

plurality of licenses corresponds to the content and contacting a remote device to

perform a more thorough analysis of whether the content matches any of the

plurality of highly compressed content pieces.

10. (Original) A system as recited in claim 9, wherein each of the plurality of

highly compressed content pieces in the subset further indicates whether one of the

plurality of licenses is required for playback of the content.

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11. (Original) A system as recited in claim 1, wherein the storage device is further to store the content.

12. (Original) A system as recited in claim 1, further comprising a content

source, coupled to the content player, from which the content is received.

13. (Original) A system as recited in claim 12, wherein the content player

receives the content from the content source in its entirety before playback of the content

begins.

**14.** (Original) A system as recited in claim 1, wherein the comparator is to

determine whether the content matches any of the plurality of highly compressed content

pieces in the subset by comparing a first set of feature values associated with each of the

plurality of highly compressed content pieces with a second set of feature values

associated with the content, and checking whether at least a threshold number of the first

set of feature values is within threshold distance of the second set of feature values

(Original) A system as recited in claim 14, wherein the first set of feature 15.

values and the second set of feature values each comprises a set of audio energy features.

**16.** (Currently Amended) A device comprising:

a memory to store one or more highly compressed content pieces, wherein highly

compressed content pieces are versions of portions of content that are created in a manner

so that the highly compressed form cannot be decompressed into an intelligible form vet

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can be compared to uncompressed content for equality, and wherein the one or more

highly compressed content pieces constitute a subset of the total number of highly compressed content pieces, and the number of pieces included in the subset can vary

based on the available memory and the amount of memory required for each piece;

a comparator, coupled to the memory, to compare the one or more highly

compressed content pieces to content at the device and to determine whether the content

matches at least one of the one or more highly compressed content pieces; and

a resolver, coupled to the comparator, to take a particular action in response to the

comparator indicating the content matches one of the plurality of highly compressed

content pieces in the subset, wherein the particular action comprises checking to see

whether the device has a valid license for the content and contacting a remote device to

perform a more thorough analysis of whether the content matches any of the plurality of

highly compressed content pieces.

17. (Previously Presented) A device as recited in claim 16, wherein the

content at the device comprises content being played by the device.

18. (Canceled).

19. (Canceled).

20. (Previously Presented) A device as recited in claim 16, wherein the

memory is further to store the content.

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**21.** (**Previously Presented**) A device as recited in claim 16, further comprising a playback controller, coupled to the memory, to receive the content from an external source.

**22.** (Previously Presented) A device as recited in claim 21, wherein the external source comprises a CD.

**23.** (Previously Presented) A device as recited in claim 16, further comprising an interface, coupled to the memory, to receive the one or more highly compressed content pieces from a compressed content source.

**24.** (Previously Presented) A device as recited in claim 16, further comprising a compressor, coupled to the memory, to receive content and generate the one or more highly compressed content pieces.

25. (Previously Presented) A device as recited in claim 16, wherein the comparator is to determine whether the content matches any of the plurality of highly compressed content pieces in the subset by comparing a first set of feature values associated with each of the plurality of highly compressed content pieces with a second set of feature values associated with the content, and checking whether at least a threshold number of the first set of feature values is within threshold distance of the second set of feature values.

**26.** (**Previously Presented**) A device as recited in claim 25, wherein the first set of feature values and the second set of feature values each comprises a set of audio energy features.

**27.** (Previously Presented) A device as recited in claim 16, wherein the device comprises a portable music player.

**28.** (Previously Presented) A device as recited in claim 16, wherein each of the one or more highly compressed content pieces further indicates whether a license is required for playback of the corresponding content.

29. (Currently Amended) A method implemented in a device, the method comprising:

comparing a portion of media content <u>located in the device</u> to a set<u>subset</u> of one or more highly compressed pieces of content <u>located in the device</u>, wherein highly compressed pieces of content are versions of portions of content that are created in a manner so that the highly compressed form cannot be decompressed into an intelligible form yet can be compared to uncompressed content for equality;

determining whether the portion of media content matches any of the setsubset of highly compressed pieces;

taking a programmed action if the portion of media content matches any of the setsubset of highly compressed pieces, the programmed action comprising notifying a publisher of the media content of the existence of pirated content; and

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playing back the content if the determining indicates the portion of media content does not match any of the setsubset of highly compressed pieces.

- **30.** (Original) A method as recited in claim 29, wherein the portion of media content comprises a song.
- **31.** (Original) A method as recited in claim 29, wherein the portion of media content comprises a video clip.
- **32.** (Original) A method as recited in claim 29, further comprising performing the comparing while the portion of media content is being played.
- **33.** (Original) A method as recited in claim 29, further comprising performing the comparing while the portion of media content is being downloaded from a content source.
- **34.** (Currently Amended) A method as recited in claim 29, further comprising receiving the setsubset of highly compressed pieces from a highly compressed content piece source.

**35.** (Currently Amended) A method as recited in claim 34, further comprising subsequently receiving a new setsubset of highly compressed pieces from the highly compressed content piece source, and replacing the setsubset with the new subset.

36. (Currently Amended) A method as recited in claim 29, further comprising:

receiving content from a content source;

generating a highly compressed piece based on the received content; and

adding the generated highly compressed piece to the setsubset of highly compressed pieces.

**37.** (Currently Amended) A method implemented in a content player, the method comprising:

comparing a portion of media content to a setsubset of one or more highly compressed pieces of content are versions of portions of content that are created in a manner so that the highly compressed form cannot be decompressed into an intelligible form yet can be compared to uncompressed content for equality, and wherein the number of pieces included in the subset can vary based on the available memory in the storage device and the storage required for each piece;

determining whether the portion of media content matches any of the setsubset of highly compressed pieces; and

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taking a programmed action if the portion of media content matches any of the setsubset of highly compressed pieces, wherein the programmed action comprises checking whether one of a plurality of licenses maintained at a content player performing the comparing corresponds to the portion of media content and contacting a remote device to perform a more thorough analysis of whether the content matches any of the

plurality of highly compressed content pieces.

**38.** (Currently Amended) A method as recited in claim 29, wherein the

determining comprises:

comparing a first setsubset of feature values associated with each of the plurality of highly compressed pieces with a second setsubset of feature values associated with the

portion of media content; and

checking whether at least a threshold number of the first setsubset of feature values is within threshold distance of the second setsubset of feature values.

39. (Currently Amended) A method as recited in claim 38, wherein the first

 $\underline{\mathsf{set}}\underline{\mathsf{subset}}$  of feature values and the second  $\underline{\mathsf{set}}\underline{\mathsf{subset}}$  of feature values each comprises a

set of audio energy features.

40. (Currently Amended) One or more computer-readable memories

containing a computer program that is executable by a processor of a device to perform a

method comprising:

comparing, at the device, a portion of media content to a setsubset of one or more

highly compressed pieces of content, wherein highly compressed pieces of content are

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versions of portions of content that are created in a manner so that the highly compressed form cannot be decompressed into an intelligible form vet can be compared to

uncompressed content for equality, and wherein the number of pieces included in the

subset can vary based on the available memory in the storage device and the storage

required for each piece;

determining whether the portion of media content matches any of the setsubset of

highly compressed pieces;

checking, if the portion of media content matches any of the setsubset of highly

compressed pieces, whether a valid license for the media content is present at the device;

content matches any of the plurality of highly compressed content pieces; and

rendering the media content if the determining indicates the portion of media

contacting a remote device to perform a more thorough analysis of whether the

content does not match any of the setsubset of highly compressed pieces.

41. (Currently Amended) A device comprising:

means for storing a setsubset of highly compressed content pieces, wherein highly

compressed content pieces are versions of portions of content that are created in a manner so that the highly compressed form cannot be decompressed into an intelligible form yet

can be compared to uncompressed content for equality, and wherein the number of pieces

included in the subset can vary based on the available memory in the storage device and

the storage required for each piece;

means for determining, at the device, whether a portion of media content located

in the device matches any of the setsubset of highly compressed content pieces located in

the device:

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means for taking a particular action if the portion of media content matches any of the <u>setsubset</u> of highly compressed content pieces, the particular action comprising notifying a publisher of the media content of the existence of pirated content; and

means for playing back the content if the determining indicates the portion of media content does not match any of the setsubset of highly compressed pieces.

- **42.** (Currently Amended) A device as recited in claim 41, further comprising means for receiving an update <u>setsubset</u> of highly compressed content pieces and replacing the <u>setsubset</u> of highly compressed content pieces with the update <u>setsubset</u> of highly compressed content pieces.
- **43.** (Currently Amended) A device as recited in claim 41, further comprising means for receiving the setsubset of highly compressed content pieces.
- 44. (Currently Amended) A device as recited in claim 41, further comprising means for generating the setsubset of highly compressed content pieces.
- **45.** (Previously Presented) A device as recited in claim 41, wherein the means for storing is further for storing the portion of media content.

46. (Currently Amended) One or more computer storage media having stored thereon a plurality of instructions that, when executed by one or more processors of a

computer, causes the one or more processors to perform acts including: analyzed

checking, at the computer, whether a portion of media content matches a piece of

highly compressed content, wherein a piece of highly compressed content are a version of

a portion of content that is created in a manner so that the highly compressed form cannot

be decompressed into an intelligible form yet can be compared to uncompressed content

for equality, and wherein the piece of highly compressed content cannot be played back

to a user in an intelligible form:

allowing the portion of media content to be played back if the portion of media

content does not match the piece of highly compressed content; and

taking a particular action if the portion of media content does match the piece of

highly compressed content, wherein the particular action comprises obtaining an

additional piece of highly compressed content in order to perform a more through

analysis of whether the media content matches the piece of highly compressed content

and notifying a publisher of the media content of the existence of pirated content.

47. (Previously Presented) One or more computer storage media as recited in

claim 46, wherein the portion of media content includes one or more of audio content

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and video content

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48. (Previously Presented) One or more computer storage media as recited in claim 46, wherein the plurality of instructions further cause the one or more processors to perform acts including receiving the piece of highly compressed content from a highly

compressed content source.

49. (Previously Presented) One or more computer storage media as recited in

claim 48, wherein the plurality of instructions further cause the one or more processors

to perform acts including subsequently receiving a new piece of highly compressed

content from the highly compressed content source, and replacing the piece with the new

piece.

50. (Previously Presented) One or more computer storage media as recited in

claim 46, wherein the plurality of instructions further cause the one or more processors

to perform acts including:

receiving content from a content source; and

generating the piece of highly compressed content based on the received content.

**51.** (Previously Presented) One or more computer storage media as recited in

claim 46, wherein the checking comprises:

comparing a first set of feature values associated with the piece of highly

compressed content with a second set of feature values associated with the portion of

media content: and

checking whether at least a threshold number of the first set of feature values is

within threshold distance of the second set of feature values.

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**52.** (Previously Presented) One or more computer storage media as recited in claim 51, wherein the first set of feature values and the second set of feature values each comprises a set of audio energy features.

Claims 53-57. (Canceled).